Asymmetric Target Behavior Presentation

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Asymmetrical SCSI Behavior

- Examples of asymmetrical behavior
- Reporting of asymmetrical behavior
- Management of asymmetrical behavior
Normal operation

Host or cluster of hosts

Controller A

LU0
LU1
LU2
LU3

Controller B

Asymmetric Target Behavior
Asymmetric Target Behavior

States

Host or cluster of hosts

Controller A
LU0
LU1
LU2
LU3

Controller B
LU0
LU1
LU2
LU3

LU1 = A
LU3 = D
LU1 = I
LU3 = A
LU1 = LU2 = U

A = Active
D = Degraded
I = Inactive
U = Unavailable
Asymmetric Target Behavior

Reporting of asymmetrical behavior for LUN

- INQUIRY data
  - Asymmetric target behavior bit
  - Implicit asymmetric target behavior bit
- VPD Device Identification Page
  - Relative Target ID (already defined)
  - Relative Target Group ID (new)
  - Relative Target Group State (in ID descriptor)
Management of asymmetrical behavior

- **MAINTENANCE IN, MAINTENANCE OUT**
  - Service Action (0A) Report/Set Target Group
    - Report Parameters include:
      - Header
      - List of all Target groups
      - State of each group
      - List of Targets in each group
    - Set Parameters include:
      - Header
      - List of all Target Groups
      - Requested state of each group